

Exceed™ PP7123KNE1

(Legacy name: Achieve™ Advanced PP7123KNE1)

Polypropylene Impact Copolymer

Product Description

A medium impact copolymer resin designed for appliance applications requiring high gloss and good stiffness.

General

Availability ¹	▪ Asia Pacific		
Features	▪ Good Processability ▪ High Gloss	▪ High Stiffness ▪ Medium Flow	▪ Medium Impact Resistance ▪ Nucleated
Uses	▪ Appliance Components	▪ Appliances	▪ Consumer Applications
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		
Revision Date	▪ 09/29/2016		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11 g/10 min	11 g/10 min	ASTM D1238
Density	0.900 g/cm ³	0.900 g/cm ³	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 2.0 in/min (51 mm/min)	4740 psi	32.7 MPa	ASTM D638
Tensile Stress at Yield (73°F (23°C))	4470 psi	30.8 MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	6.4 %	6.4 %	ASTM D638
Tensile Strain at Yield	5.8 %	5.8 %	ISO 527-2/50
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	228000 psi	1570 MPa	ASTM D790A
0.51 in/min (13 mm/min)	260000 psi	1790 MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	244000 psi	1680 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact 0°F (-18°C)	0.50 ft-lb/in	27 J/m	ASTM D256A
73°F (23°C)	1.6 ft-lb/in	85 J/m	
Notched Izod Impact Strength -22°F (-30°C)	1.2 ft-lb/in ²	2.5 kJ/m ²	ISO 180/1A
-4°F (-20°C)	1.3 ft-lb/in ²	2.7 kJ/m ²	
32°F (0°C)	1.8 ft-lb/in ²	3.8 kJ/m ²	
73°F (23°C)	3.3 ft-lb/in ²	6.9 kJ/m ²	
Charpy Notched Impact Strength -22°F (-30°C)	1.1 ft-lb/in ²	2.4 kJ/m ²	ISO 179/1eA
-4°F (-20°C)	1.2 ft-lb/in ²	2.5 kJ/m ²	
32°F (0°C)	1.8 ft-lb/in ²	3.7 kJ/m ²	
73°F (23°C)	3.2 ft-lb/in ²	6.8 kJ/m ²	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	129 °F	54.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	216 °F	102 °C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	241 °F	116 °C	ASTM D648
DTUL (66 psi) - Annealed	255 °F	124 °C	ASTM D648

Optical	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (60°)	89	89	ASTM D523

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Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	96	96	ASTM D785

Legal Statement

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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